CLAIMS

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We claim:

1. A method for regeneration of articular cartilage comprising administering to an area in need of regeneration of said articular cartilage at least one purified bone morphogenetic protein (BMP).

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- 2. A method for regeneration of articular cartilage comprising administering to an area in need of regeneration of said articular cartilage a suitable tissue source in combination with at least one purified bone morphogenetic protein (BMP).
 - 3. The method of claim 1 wherein said BMP is BMP-2
 - 4. The method of claim 2 wherein said BMP is BMP-2.

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- 5. A method for regeneration of articular cartilage comprising administering to an area in need of regeneration of said articular cartilage at least one purified protein selected from the group consisting of Vgr-2, growth and differentiation factors (GDFs), and BIP.
- 6. The method of claim 1 further comprising a protein which induces the formation of tendon or ligament-like tissue.
- 7. The method of claim 6 wherein said protein which induces the formation of tendon or ligament-like tissue is selected from the group consisting of BMP-12, BMP-13 members of the BMP-12 subfamily and MP52.
- 8. A composition for regeneration of articular cartilage said composition comprising at least one purified bone morphogenetic protein (BMP).
- 9. A composition for regeneration of articular cartilage said composition comprising a suitable tissue source in combination with at least one purified bone morphogenetic protein (BMP).

- 5 10. The composition of claim 8 wherein said BMP is BMP-2
 - 11. The composition of claim 9 wherein said BMP is BMP-2.
 - 12. A composition for regeneration of articular cartilage said composition comprising at least one purified protein selected from the group consisting of Vgr-2, growth and differentiation factors (GDFs), and BIP.
- 13. The composition of claim 8 further comprising a protein which induces the formation of tendon or ligament-like tissue.
 - 14. The composition of claim 13 wherein said protein which induces the formation of tendon or ligament-like tissue is selected from the group consisting of BMP-12, BMP-13 members of the BMP-12 subfamily and MP52.